

CLAIMS

What is claimed is:

- Sub A1*
1. A vehicle body panel comprising:
a sheet of material; and
spaced reinforcement on said panel such that said panel crumples in a predetermined manner.
 2. The body panel of claim 1 wherein said sheet is made from a polymer.
 3. The body panel of claim 1 further comprising a sheet of colored material attached to said sheet of material.
 4. The body panel of claim 3 wherein said sheet of material is reinforced with spaced reinforcing fibers.
 5. The body panel of claim 3 wherein said sheet of material is reinforced with spaced ribs.
 6. The body panel of claim 3 wherein said sheet comprises alternating sections of a rigid polymeric material and a less rigid polymeric material.
 7. The body panel of claim 6 wherein said rigid polymeric material is a high density polymeric foam and said less rigid polymeric material is a low density polymeric foam.
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8. The body panel of claim 3 wherein said sheet is made from polymeric foam and is reinforced with spaced metal inserts.
9. The body panel of claim 8 wherein said metal inserts are notched.
10. The body panel of claim 3 wherein said sheet of colored material is a paintless film.
11. The body panel of claim 3 wherein said sheet of colored material is a pre-painted aluminum.

Docket # 60,130-709

12. A vehicle body panel comprising:

a polymeric material reinforced with spaced ribs on one side; and
a colored material attached to an opposed side of said polymeric material.

13. The body panel of claim 12 wherein said sheet of polymeric material and said ribs are a single molded component.

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A2*

14. A vehicle body panel comprising:
a polymeric material reinforced with a spaced reinforcing material on one side; and
a colored material attached to an opposed side of said reinforced polymeric material.

15. The body panel of claim 14 wherein said reinforcing material comprises reinforcing fibers.

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A3*

16. The body panel of claim 15 wherein said polymeric sheet is molded and said reinforcing fibers are molded into said sheet in spaced rows.

17. The body panel of claim 14 wherein said reinforcing material comprises metal inserts.

18. The body panel of claim 17 further having foam as part of said polymeric material and wherein said metal inserts are spaced and molded into said foam.

19. The body panel of claim 14 wherein said reinforcing material comprises alternating rows of a low density foam and a high density foam wherein said rows of low density foam and said rows of high density foam are attached to said polymeric material.

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B1*